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UNIVERSITY OF NEBRASKA COLLEGE OF
AGRICULTURE AND HOME ECONOMICS
THE AGRICULTURAL EXPERIMENT STATION

E. F. FROLIK, DEAN
H. W. OTTOSON, DIRECTOR

Agricultural Experiment Station

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Vol. 1, No. 10, April 1969

FROM THE DIRECTORS OFFICE

A special committee, with Dr. Earl Raun as Chairman, and including Messrs. Haskins, Koch, Schuster, Rosenberg, Vollmar, Holman and Collings, was set up a year ago to examine our policies on Experiment Station Publications. As a result of the recommendations made by the Committee particularly with respect to classification, the Author's Guide, (Station Circular 109) has been revised to provide for:

1. A new series called "Station Abstracts", as distinguished from "Journal Articles". They will be identified in the journal numbered series by the addition of the letter "a".
2. The elimination of the Station Circulars and Special Reports.

Suggestions on the "Author's Guide", classification of publications, or other matters related to publication are welcome at any time.

H. W. Ottoson

AGRICULTURAL POLLUTION RESEARCH

Agricultural pollution is a major concern and the Nebraska Agricultural Experiment Station with cooperating agencies is therefore directing major research effort to it. Problems relate to expanding livestock enterprise, growing use of various chemicals in crop production and increasingly intense use relationships of air, land and water. Even as the problems are numerous and complex, so are our research commitments. The following staff are involved in this broad but coordinated effort focused particularly on livestock operations.

Dr. Baker (40%), Agr'l. Economics	- Economic impacts of pollution control
Mr. Gilbertson (ARS-AERD), Agr'l. Eng'g.	- System design for feedlot waste handling
Dr. Cross (20%), Agr'l. Eng'g.	- Poultry waste handling systems
Dr. Edwards (20%), Agr'l. Eng'g.	- Precipitation of pollutants from water
Dr. Wittmuss (20%), Agr'l. Eng'g.	- Runoff control practices and designs
Mr. Swanson (ARS-SWC), Agr'l. Eng'g.	+ Characterizing problems of water
Mr. Lorimor (ARS-SWC), Agr'l. Eng'g.	+ Pollution of feedlot origin -
Mr. Mielke (ARS-SWC), Agr'l. Eng'g.	+ hydrologic and physical factors
Dr. McCalla (ARS-SWC), Agronomy	+ Soil and water pollution of
Mr. Ellis (ARS-SWC), Agronomy	+ feedlot origin - chemical and
Dr. Elliott (ARS-SWC), Agronomy	+ microbiological quantification, also
Mr. Schuman (ARS-SWC), Agronomy	+ chemical content of runoff and return flow
Dr. Chesnin (25%), Agronomy	- Movement of contaminants in soil
Dr. Mazurak (5%), Agronomy	- profile vs management systems
Dr. Drew (10%), Agronomy	+ Soil management and residual
Mr. Olson (20%), Agronomy	+ nutrient (especially nitrates) in
Mr. Maddux (50%), Agronomy	+ ground surface waters
Mr. Lewis (30%), Agronomy	- Movement and degradation of herbicides
Dr. Lavy (80%), Agronomy	- Poultry waste management systems
Dr. Hartung (5%), Poultry Sci.	

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Mr. Fritschen (10%),	An. Sci.	- Swine waste management systems
Dr. Woods (10%),	An. Sci.	- Beef feedlot waste management systems
Dr. Peo (5%),	An. Sci.	- Swine waste management systems
Dr. Appleman (5%),	An. Sci.	- Dairy waste management systems

PERSONNEL ACTIONS

Aandahl, Andrew R. - Professor of Agronomy - Great Plains Council Project
 Dahlgren, Robert R. - Associate Professor of Vet. Sci., North Platte Station -
 Resignation
 Rehm, George W. - Assistant Professor of Agronomy - Northeast Station

NEW GRANTS, CONTRACTS AND COOPERATIVE AGREEMENTS

Burnside, O. C. - Agronomy - United States Rubber Company	\$ 1,000.00
Burnside, O. C. - Agronomy - Geigy Chemical Company	1,000.00
Ellington, E.F. - Animal Science - G. D. Searle and Company	2,000.00
Fenster, C. R. - Agronomy & Scotts Bluff Station - Geigy Chemical Company	500.00
Fenster, C. R. - Scotts Bluff Station - Great Western Sugar Company	3,500.00
Raun, E. S. - Entomology - Geigy Chemical Company	2,500.00
Sander, D. H. and Penas, E. J. - Agronomy - Eagle Picher Inc.,	1,000.00
Schuster, M. - Plant Pathology - U.S.D.A., Coop. State Research Service	64,127.00

GENERAL NOTES

1. Congratulations to the following staff for their recently approved promotions to be effective July 1, 1969:
 - James G. Kendrick - to Professor of Agricultural Economics
 - Robert J. Florell - to Associate Professor of Agricultural Education
 - Melvin K. McCarty - to Professor of Agronomy
 - Vincent H. Arthaud - to Associate Professor of Animal Science
 - Terry J. Klopfenstein - to Associate Professor of Animal Science
 - Roger W. Mandigo - to Associate Professor of Animal Science
 - Albert E. Dudeck - to Associate Professor of Horticulture and Forestry
 - Ralph T. Monahan, Jr., - to Assistant Professor of Horticulture and Forestry
 - Thomas B. Bare - to Assistant Professor of Information
 - James L. Van Etten - to Associate Professor of Plant Pathology
 - David S. Wysong - to Associate Professor of Plant Pathology
 - Donald L. Ferguson - to Associate Professor of Veterinary Science
 - E. Crosby Howe - to Associate Professor of Veterinary Science
 - D. Murray Danielson - to Associate Professor of An. Sci. (North Platte Station)
 - Larry S. Axthelm - to Assistant Professor of Agr'l. Eng'g. (Scotts Bluff Station)
 - David S. Nuland - to Assistant Professor of Hort. & For. (Scotts Bluff Station)
2. Congratulations also to the following staff recently appointed to the Graduate Faculty:
 - Robert D. Appleman - Associate Professor of Animal Science
 - Larry V. Cundiff - Associate Professor of Animal Science
 - Albert E. Dudeck - Assistant Professor of Horticulture and Forestry
 - Patricia J. Sailor - Associate Professor of Textiles Clothing & Design
 - Wilfred M. Schutz - Professor of Agronomy (Statistical Laboratory)
 - Warren Viessman, Jr., - Professor of C. E. (Water Resources Research Center)
 - Fred W. Wagner - Assistant Professor of Biochemistry and Nutrition
3. The pasture irrigation project at the North Platte Station is another excellent example of multi-discipline research effort. It has stirred much interest and drawn requests for information from many including two G Is in Viet Nam, looking to their return to Nebraska ranches.

R. W. Kleis

AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - APRIL 1969

Journal Articles

- 2562. Mutation Studies, Recurrent Selection Programs, and Use of Exotic Germ Plasm in Corn Improvement at the University of Nebraska. C. O. Gardner. Proceedings of a special symposium on plant breeding, National Taiwan University.
- 2563. Seasonal Patterns in Evapotranspiration by Irrigated Alfalfa in the Central Great Plains. Norman J. Rosenberg. Agronomy Journal.
- 2564. Physiology and Sorghum Production. J. D. Eastin. Proceedings of 1969 Biennial Sorghum Producers' Conference.
- 2565. The Influence of Fluctuating and Constant Temperatures, Photoperiod, and Soil Moisture on the Susceptibility and Resistance of Alfalfa to the Spotted Alfalfa Aphid. S. Dean Kindler and Robert Staples. Journal of Economic Entomology.
- 2566. Larval Migration of the Western Corn Rootworm. Donald E. Short and Robert J. Luedtke. Agronomy Journal.
- 2567. Programmed Instruction for Non-Professional Food Service Personnel. Carol L. Cotner and Marie E. Knickrehm. Journal of The American Dietetic Association.
- 2568. Biology and Relationship of the Leafhopper, Aceratagallia calcaris, to Yellow Vein Disease of Sugar Beets. Robert Staples, William P. Jansen, and Lloyd W. Andersen. Economic Entomology.
- 2569. Shurchip and Sioux, Two New Scab Resistant Potato Varieties. Dr. R. B. O'Keefe. American Potato Journal.
- 2570. Factors Influencing Viability of Castorbean Seed. J. H. Williams and D. L. Kittock. Agronomy Journal.
- 2571. Effect of Relative Humidity on the Fate of the Microflora of Milk on Metal Surfaces. H. M. Barnhart, Jr., R. B. Maxcy, and C. E. Georgi. Journal of Applied Microbiology.
- 2572. Field Evaluation of Parabendazole as an Ascaricide in Swine. Donald L. Ferguson, and David M. Danielson. Veterinary Medicine.
- 2573. Alterations of in Vitro Rumen Fermentations Patterns with Various Levels of Sucrose and Cellulose. D. W. Kellogg and F. G. Owen. Technical Note in Journal of Dairy Science.
- 2574. The Effect of Humidity and Solute Concentration on the Microflora of Dairy Origin on Surfaces of Stainless Steel. H. M. Barnhart, Jr., R. B. Maxcy, and C. E. Georgi. Journal of Dairy Science.
- 2575. Seeding Without Mechanical Soil Preparation. R. W. Kleis. Transactions--VII CIGR.
- 2576. Production and Properties of a *Penicillium roqueforti* Lipase. R. R. Eitenmiller, J. R. Vakil, and K. M. Shahani. Journal of Food Science.

- 2577. Carbohydrate Metabolism of Lactic Acid Cultures. V. Lactobionate and Gluconate Metabolism of Streptococcus Lactis UN. J. R. Vakil and K. M. Shahani. Journal of Dairy Science.
- 2578. Public Policy with Respect to Capital for Colombian Agriculture. Loyd K. Fischer. Journal of Developing Areas.
- 2579. Characterization of Xanthomonas phaseoli Bacteriophages. Anne K. Vidaver and Max L. Schuster. Journal of Virology.
- 2580. Diffusion of Three Chloro s-Triazines in Soil. T. L. Lavy. Journal of Weed Science.
- 2581. ETV Entomology at the University of Nebraska. Thomas J. Helms. The Journal of the National Association of Colleges and Teachers of Agriculture.

Station and Research Bulletins Printed

- SB 505 Yearling Steer Gains and Vegetation Changes of Western Nebraska Rangeland Under Three Rates of Stocking (A Ten-Year study). Donald F. Burzlaff, Lionel Harris.
- RB 229 Germination and Early Seedling Development of Musk and Plumeless Thistle. M. K. McCarty, C. J. Scifres, A. L. Smith, G. L. Horst.